

UNCLASSIFIED

Chemical Sciences and Engineering

Aspen LIMS

Customization

What's New?

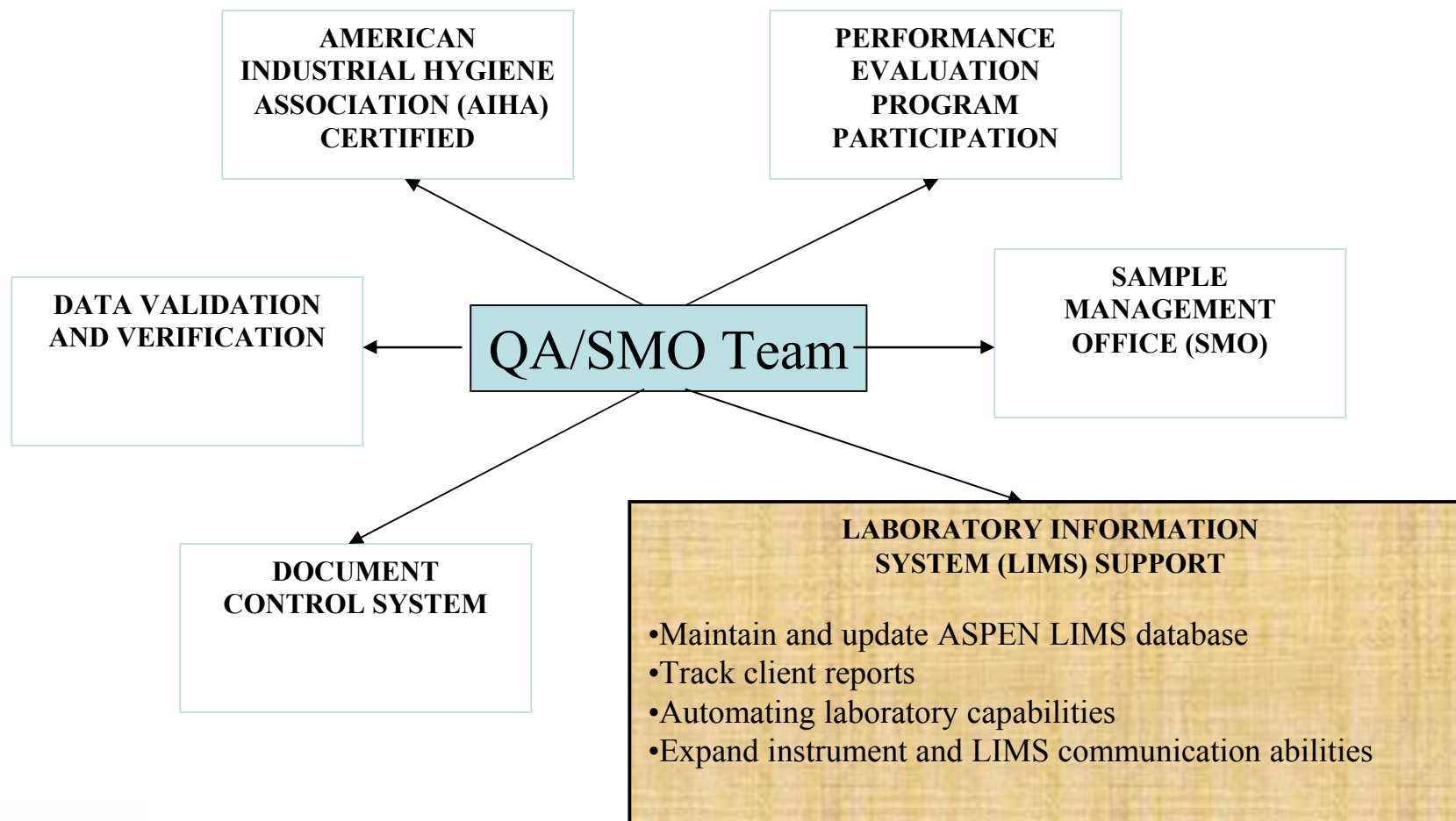
Maura Wilhelm

Aspen LIMS Database Administrator

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Chemistry Division
Chemical Sciences and Engineering Group (C-CSE)
Quality Assurance/Sample Management Team



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Samples Analyzed and Reported in Aspen by Fiscal Year

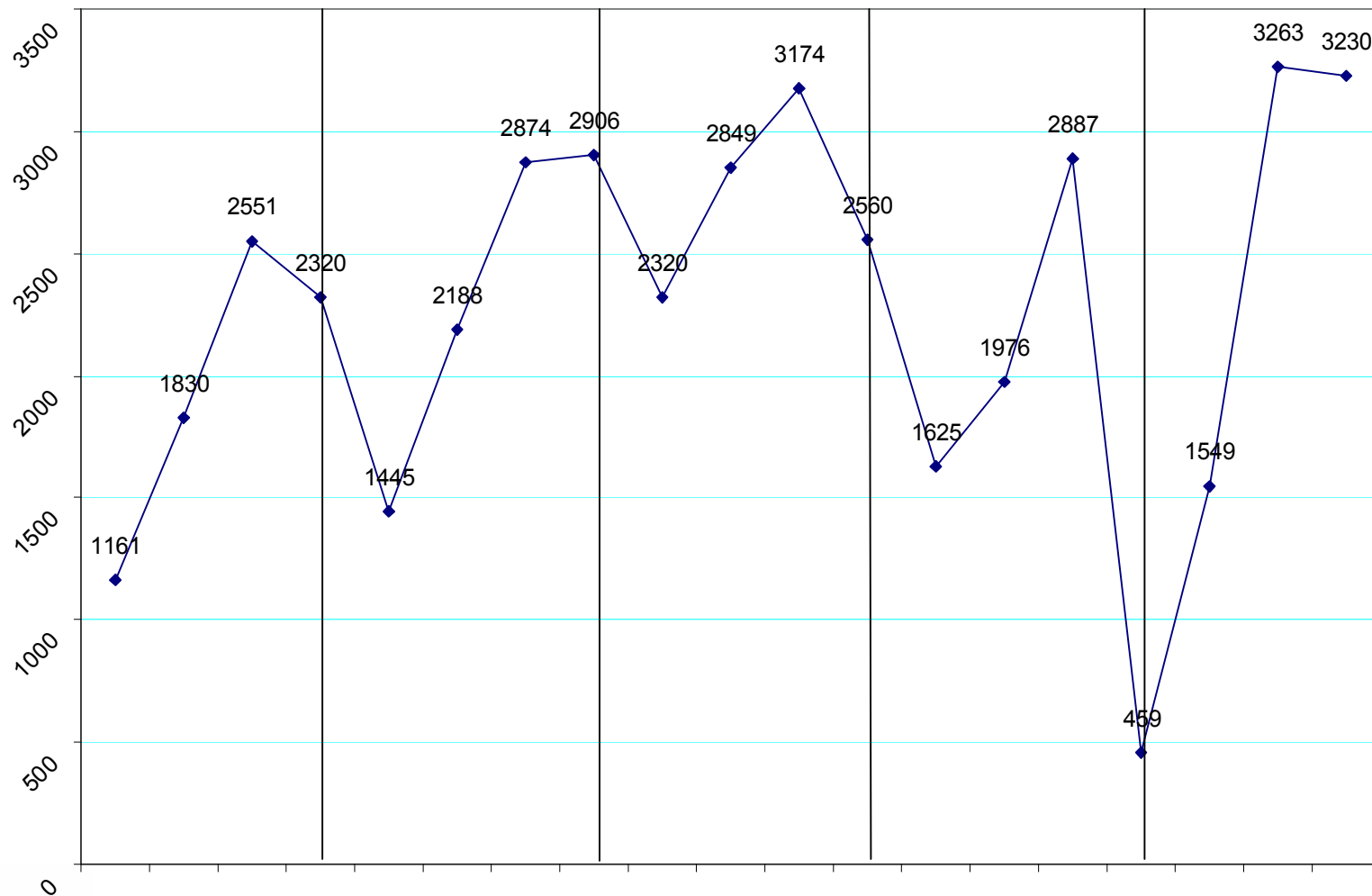
FY-01 = 7,862

FY-02 = 9,413

FY-03 = 10,903

FY-04 = 6,947

FY-05 = 8,042 (3 qrts)



UNCLASSIFIED

Sample Processing through LIMS

Sample Login

Samples collected in field by
Health, Safety, and Radiation Protection
Industrial Hygienists

Samples Received by
Sample Management Office
personnel



Aspen Enterprise
Laboratory Information Management System
Los Alamos National Lab

Active Samples	Archived Samples	Utilities
Login/Edit Samples	Select Archives	Quotations
Enter Prep/Sample Information	Review Samples	Utilities Menu
Import Data	Routine Reports	User Exit
Review QC	Print Reports	Exit LIMS
Review Status		
Routine Reports		
Print Reports		

Version 4.5 30007
Licensed For: 15 Users
Current User: 100683

Samples logged into Laboratory Information
Management System (LIMS)

Sample Delivery Package number is assigned in Aspen

Login Samples 10/31/02 14:27 100683

Lab Sample #: 02103105-001 From Schedule: ☐

Ref. ID: IHE, Pb, & U Priority: ☐ Use Business Days: ☒

Sample Type: Filters, Swipe Screening Data:

Customer Sample ID: LIMS V6 test A Note: Filter Swipes for Be, Pb, & U Analysis

ClientID: MTW Mauro T. Wilhelm ID/Work Card #:

Program Code: xxxxxxxxxxxx

Reference Library

Test Group Library

Test Group(s) Assigned to Sample:

TestGroupID	TestGroup Name	Lab Section	SortNo	Assoc
SP147	Melots on Filters	IHCPCS	1	A

Record: 1 of 1

New Sample Replicate Sample Delete Sample Subcontractors Print SDG Documents

Test Group Login

- <-Delete Group
- Edit Group Order
- Modify Tests
- Container Info

Sample Processing through LIMS

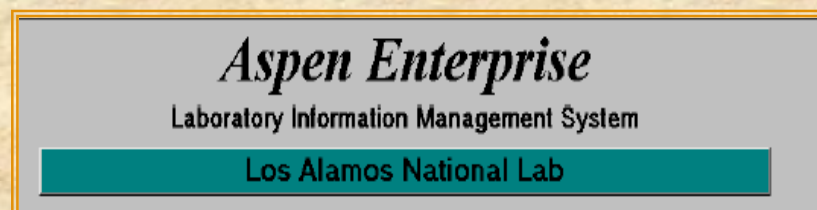
Prep Batch Creation

Digestion Analyst accepts custody of samples from SMO personnel

Analyst completes digestion process in digestion lab



Analyst creates prep batch in Aspen



Active Samples

- Login/Edit Samples
- Enter Prep/Sample Information**
- Import Data
- Review QC
- Review Status
- Routine Reports
- Print Reports

Enter Existing Prep Data

Prep# 62 Prep Date: 9/11/2003 Prep By: 086458

QC	Lab#	TestGroup ID:	Container ID:	Prep Method:	SampleID	Digestion Dilution	Prep Date	Select
...	03091103-001	SP147	03091103-001-01A	SP147	091003JS1	10	9/11/2003	
...	03091103-002	SP147	03091103-002-01A	SP147	091003JS2	10	9/11/2003	
...	03091103-003	SP147	03091103-003-01A	SP147	091003JS3	10	9/11/2003	
...	03091103-004	SP147	03091103-004-01A	SP147	091003JS4	10	9/11/2003	
...	03091103-005	SP147	03091103-005-01A	SP147	091003JS5	10	9/11/2003	
...	03091103-006	SP147	03091103-006-01A	SP147	091003JS6	10	9/11/2003	
...	03091103-007	SP147	03091103-007-01A	SP147	091003JS7	10	9/11/2003	
...	03091103-008	SP147	03091103-008-01A	SP147	091003JS8	10	9/11/2003	
...	03091103-009	SP147	03091103-009-01A	SP147	091003JS9	10	9/11/2003	
...	03091103-010	SP147	03091103-010-01A	SP147	091003JS10	10	9/11/2003	
...	03091103-011	SP147	03091103-011-01A	SP147	091003JS11	10	9/11/2003	
...	03091103-012	SP147	03091103-012-01A	SP147	091003JS12	10	9/11/2003	
...	03091103-013	SP147	03091103-013-01A	SP147	091003JS13	10	9/11/2003	
...	03091103-014	SP147	03091103-014-01A	SP147	091003JS14	10	9/11/2003	
...	03091103-015	SP147	03091103-015-01A	SP147	091003JS15	10	9/11/2003	
...	03091103-016	SP147	03091103-016-01A	SP147	091003JS16	10	9/11/2003	
...	03091103-017	SP147	03091103-017-01A	SP147	091003JS17	10	9/11/2003	
...	03091103-018	SP147	03091103-018-01A	SP147	091003JS18	10	9/11/2003	
...	03091103-019	SP147	03091103-019-01A	SP147	091003JS19	10	9/11/2003	
...	03091103-020	SP147	03091103-020-01A	SP147	091003JS20	10	9/11/2003	

NEW!

Edit Prep Data Print Digestion Log Print Auto Sampler Report Back

DIGESTION LOGBOOK INFORMATION

BatchID: 091103 IH - 62 Prep#: 62
 PrepDate: 9/11/2003 Method: SP147
 Analyst: 086458

Pipette ID: W623816 Reference Notebook: CST9370

Digestion Acids **Digestion Dilutor**

H2SO4 Lot Number: 3101010 PB Dilution:
 HCl Lot Number: 4102110 BM Dilution:
 H2O2 Lot Number: 031737 LCS Dilution:
 HNO3 Lot Number: 1103010 SM Dilution:
 SMD Dilution:

QC Information

BM Lot Number: D1409048
 LCS Name: 00.39876-C
 Spike Solution ID: SMAUG2003

Note: All the fields with drop down lists are manually editable fields with the exception of "LCS Name" and "Spike Solution ID." Please inform the LIMS Administrator if these fields need to be updated.

Comments: None

Done

Sample Processing through LIMS

Batch setup on instrument

Analyst creates Digestion Logbook Report and Autosampler Report

Analyst loads Autosampler Report into PE WinLab32 Sample Information file

DIGESTION LOGBOOK

Batch ID: 093003 IH - 97				Prep#: 97		Spike Solution ID: SMAUG2003	
Prep Date: 9/30/2003				Method: SP147		Spike Received Date: 7/1/2003	
Analyst: Straw (101091)				Pipette ID/Reference Notebook: W623816 / CST9370		Spike Expiration: 7/1/2004	
Digestion Acids:	H ₂ SO ₄ Lot Number: 3101010		H ₂ O ₂ Lot Number: 31737		Spike Reference Notebook and Page CST9557-57		
	HCl Lot Number: 4102110		HNO ₃ Lot Number: 1103010				
Spike Solution Lot #: 233454A							
VESSEL NUMBER	COMMENTS	SDG	SAMPLE INFO	DIGESTION VOLUME	SAMPLE MATRIX	ANALYTE	DUE DATE
1			PB 093003 IH - 97	10			
2	Lot Number *D1409048		FILTER BLANK BM	10			
3	Lot Number 222820		00.39876-D (TA.59) LCS	10			
4	100uL		FILTER SPIKE SM	10			
5	100uL		FILTER SPIKE SMD	10			
6		03092902-001		10	Filters, Swipe	Be, Pb, U	10/2/2003
7		03092902-002		10	Filters, Swipe	Be, Pb, U	10/2/2003
8		03092902-003		10	Filters, Swipe	Be, Pb, U	10/2/2003
9		03092902-004		10	Filters, Swipe	Be, Pb, U	10/2/2003
10		03092902-005		10	Filters, Swipe	Be, Pb, U	10/2/2003
11		03092902-006		10	Filters, Swipe	Be, Pb, U	10/2/2003
12		03092902-007		10	Filters, Swipe	Be, Pb, U	10/2/2003
13		03092902-008		10	Filters, Swipe	Be, Pb, U	10/2/2003
14		03092902-009		10	Filters, Swipe	Be, Pb, U	10/2/2003
15		03092902-010		10	Filters, Swipe	Be, Pb, U	10/2/2003
16		03092902-011		10.5	Filters, Swipe	Be, Pb, U	10/2/2003
17		03092902-012		10	Filters, Swipe	Be, Pb, U	10/2/2003
18		03092902-013		10	Filters, Swipe	Be, Pb, U	10/2/2003
19		03092902-014		10	Filters, Swipe	Be, Pb, U	10/2/2003
20		03092902-015		10	Filters, Swipe	Be, Pb, U	10/2/2003
21		03092902-016		10	Filters, Swipe	Be, Pb, U	10/2/2003
22		03092902-017		10	Filters, Swipe	Be, Pb, U	10/2/2003
23		03092902-018		10	Filters, Swipe	Be, Pb, U	10/2/2003
24		03092902-019		10	Filters, Swipe	Be, Pb, U	10/2/2003
25		03092902-020		10	Filters, Swipe	Be, Pb, U	10/2/2003

* Filter Spike and Filter Spike Dup are the same lot number as the Filter Blank.

Sample Processing through LIMS

Sample Analysis and Import

Analyst processes batch on PE Instrument performing reanalysis as needed

Analyst downloads raw instrument data to LimsLink

LimsLink parses raw data for import into Aspen

Analyst imports text file from LimsLink to Aspen

Aspen sets up data for import into the worksheet by prompting the analyst to select QC templates

Analyst imports sample and QC results into new Worksheet in Aspen

Imported Data													
LAB#	QC Code	Test Group ID	Test ID	Numeric Result	Alpha Result	Units	Anal Date	Anal By	MDL	Weight	Volume	Dilution	S
PB 020905 IH - 882	PB	Method Blank	Be	-5.298E-05			2/9/2005	201750			10	1	
	InstrumentID:												
Media Blank	BM	Media Blank	Be	-7.8019E-05			2/9/2005	201750				1	
	InstrumentID:												
00.39876-C003 LCS	LCS	LCS	Be	0.092224368			2/9/2005	201750			10		
	InstrumentID:												
Media Spike	SM	Media Spike	Be	0.370431115			2/9/2005	201750			10	1	
	InstrumentID:												
Media Spike Dup	SMD	Media Spike	Be	0.37502419			2/9/2005	201750			10	1	
	InstrumentID:												
05020904-001		SP147	Be	0.000295181			2/9/2005	201750			10	1	
	InstrumentID:												
05020904-002		SP147	Be	0.000493623			2/9/2005	201750			10	1	
	InstrumentID:												
05020904-003		SP147	Be	-0.00018272			2/9/2005	201750			10	1	
	InstrumentID:												
05020904-004		SP147	Be	-5.0191E-06			2/9/2005	201750			10	1	
	InstrumentID:												
05020904-005		SP147	Be	-5.5487E-05			2/9/2005						
	InstrumentID:												
05020904-006		SP147	Be	0.00036779			2/9/2005						
	InstrumentID:												
05020904-007		SP147	Be	-0.00010138			2/9/2005						
	InstrumentID:												
<div> Add Record Send To LIMS Delete Import Record Set QC Test Group ID Print Close </div>													

NEW!

LCS Test Group ID's

Select A Test Group ID

00.39876	Laboratory Control Sample for IH
00.39878	Laboratory Control Sample for IH
00.39890	Laboratory Control Sample for IH
00.39892	Laboratory Control Sample for IH
00.ResEnv	IH Filter - Be

Sample Processing through LIMS

Analysis Results Import to Worksheet and QC Flagging

Analyst imports results automatically via Aspen's Import Process into new Worksheet

Aspen calculates Reported Results for Samples based on raw data imported from instrument.

Aspen calculates Reported Results for QC and sets flags based on QC template parameters.

Enter TEST Results Worksheet has QC Assigned. QC Prefix: 03 99 - Inorganic 01 - Radchem 02 - Organic 03 - IH

WS#: **WS005122** Lab Section: **Industrial Hygiene**

QC	Lab#	Customer Sample ID	Test Group ID	Test	Numeric Result	Alpha Result	Flag	Reported Result	Units	MDL	Volume	Dilution
	05072903-001	072605RBS01	SP147	Be	0.000224105		<	0.03	ug/filter	0.003	10	1
Comments:					CalcResult	0.0022410436	CalcMDL	0.03	Instrument ID			
	05072903-002	072605RBS02	SP147	Be	0.0002849466		<	0.03	ug/filter	0.003	10	1
Comments:					CalcResult	0.0028494665	CalcMDL	0.03	Instrument ID			
	05072903-003	072605RBS03	SP147	Be	0.0010384852		<	0.03	ug/filter	0.003	10	1
Comments:					CalcResult	0.0103848519	CalcMDL	0.03	Instrument ID			
	05072903-004	072605RBS04	SP147	Be	4.165826E-05		<	0.03	ug/filter	0.003	10	1
Comments:					CalcResult	0.0004165826	CalcMDL	0.03	Instrument ID			
	05072903-005	072605RBS05	SP147	Be	8.070057E-05		<	0.03	ug/filter	0.003	10	1
Comments:					CalcResult	0.0008070057	CalcMDL	0.03	Instrument ID			
	05072903-006	072605RBS06	SP147	Be	0.0001839729		<	0.03	ug/filter	0.003	10	1
Comments:					CalcResult	0.0018397290	CalcMDL	0.03	Instrument ID			
	05072903-007	072605RBS07	SP147	Be	8.209995E-05		<	0.03	ug/filter	0.003	10	1
Comments:					CalcResult	0.0008209995	CalcMDL	0.03	Instrument ID			
	05072903-008	072605RBS08	SP147	Be	0.0006256839		<	0.03	ug/filter	0.003	10	1
Comments:					CalcResult	0.0062568389	CalcMDL	0.03	Instrument ID			
	05072903-009	072605RBS10	SP147	Be	0.0001534803		<	0.03	ug/filter	0.003	10	1
Comments:					CalcResult	0.001534803	CalcMDL	0.03	Instrument ID			
	05072903-010	072605RBS11	SP147	Be	0.00090057		<	0.03	ug/filter	0.003	10	1
Comments:					CalcResult	0.00090057	CalcMDL	0.03	Instrument ID			

Mark Status Enter Description Export Data Trends Tests for Re-Analysis Print Info View QC

User Ext. Print Back

QC Lab#

QC Code

QC Test Group ID

QC Test ID

QC Numeric Result

Result Flag

Reported Result

NT

QC True/Added:

QC Low Limit

QC High Limit

QC Mode

MD

Media Blank	BM	00.36898	Be	0.0020359613	<	0.03		0	-0.03	0.09		0.0
	2R Flag			RPD Flag		LIMS#:	24135	Sigma :	0			
Media Spike	SM	SMJUN2005.5	Be	0.321806718		3.22		4	80	109	Relative	0.0
	2R 80.45	2R Flag		RPD Flag		LIMS#:	24136	Sigma :	0	-11	10	Relative
Media Spike Dup	SMD	SMDJUN2005	Be	0.3254004564		3.25		4	80	109	Relative	0.0
	2R 81.35	2R Flag		RPD -1.10	RPD Flag	LIMS#:	24137	Sigma :	0	-11	10	Relative
PB 072605 IH - A	PB	00.39756	Be	-0.000462070				0	-0.03	0.09		0.0
	2R Flag			RPD Flag		LIMS#:	24138	Sigma :	0			

NEW!

Microsoft Access

QC Flags Set

OK

Sample Processing through LIMS

Preliminary Reporting in Aspen

Analyst compiles Data Package consisting of all documents and reports related to Sample

Data Package is sent to peer review

Analyst generates a Preliminary Report which is Emailed to Customer

*** Preliminary Worksheet Report ***
Wednesday, August 03, 2005
Worksheet #: WS004972, LB05060607, ID/Workcard #: 200501363

Customer Sample ID: 200501363 A C-CSE Lab#: 05060607-001
LabSection: IH-ICPES

Test Name	Flag	Reported Result	PQL	Units	Analysis Date	Method
Aluminum	<	5.25	5.25	ug/filter	6/8/2005	SP147
Beryllium	<	0.03	0.03	ug/filter	6/8/2005	SP147
Iron		7.77	6.5	ug/filter	6/8/2005	SP147
Lead	<	1.20	1.2	ug/filter	6/8/2005	SP147

Customer Sample ID: 200501363 B C-CSE Lab#: 05060607-002
LabSection: IH-ICPES

Test Name	Flag	Reported Result	PQL	Units	Analysis Date	Method
Aluminum	<	5.25	5.25	ug/filter	6/8/2005	SP147
Beryllium	<	0.03	0.03	ug/filter	6/8/2005	SP147
Iron		7.56	6.5	ug/filter	6/8/2005	SP147
Lead	<	1.20	1.2	ug/filter	6/8/2005	SP147

Customer Sample ID: 200501363 C C-CSE Lab#: 05060607-003
LabSection: IH-ICPES

Test Name	Flag	Reported Result	PQL	Units	Analysis Date	Method
Aluminum	<	5.25	5.25	ug/filter	6/8/2005	SP147
Beryllium	<	0.03	0.03	ug/filter	6/8/2005	SP147
Iron		8.13	6.5	ug/filter	6/8/2005	SP147
Lead	<	1.20	1.2	ug/filter	6/8/2005	SP147

Customer Sample ID: 200501363 D C-CSE Lab#: 05060607-004
LabSection: IH-ICPES

Test Name	Flag	Reported Result	PQL	Units	Analysis Date	Method
Aluminum	<	5.25	5.25	ug/filter	6/8/2005	SP147
Beryllium	<	0.03	0.03	ug/filter	6/8/2005	SP147
Iron	<	6.50	6.5	ug/filter	6/8/2005	SP147
Lead	<	1.20	1.2	ug/filter	6/8/2005	SP147

*** Preliminary Worksheet Report *** Page 1 of 7

*** Preliminary Worksheet Report ***
Wednesday, August 03, 2005
Worksheet #: WS004972, LB05060607, ID/Workcard #: 200501363

Media Spike Dup

QC ID SMDJUN2005

Test Name	Result Flag	Result	PQL	Units	Analysis Date	QC Value	%R / RPD	%R Flag	RPD Flag
Aluminum		7.68	5.25	ug/filter	6/8/2005	8	96.0 / -1.00		
Beryllium		3.78	0.03	ug/filter	6/8/2005	4	94.4 / 0.90		
Iron		11.2	6.5	ug/filter	6/9/2005	8	140 / -21.00	H	*
Lead		3.83	1.2	ug/filter	6/8/2005	4	95.8 / -0.40		

Method Blank PB 060805 IH - 1174

Test Name	Result Flag	Result	PQL	Units	Analysis Date	%R Flag	RPD Flag
Aluminum	<	5.25	5.25	ug/filter	6/8/2005		
Beryllium	<	0.03	0.03	ug/filter	6/8/2005		
Iron	<	6.50	6.5	ug/filter	6/9/2005		
Lead	<	1.20	1.2	ug/filter	6/8/2005		

*** Preliminary Worksheet Report *** Page 7 of 7

Sample Processing through LIMS

Narrative Reporting in Aspen

Menu

Aspen Enterprise

Laboratory Information Management System

Los Alamos National Lab

Active Samples	Archived Samples	Utilities
Login/Edit Samples	Select Archives	
Enter Prep/Sample Information	Review Samples	
Import Data	Routine Reports	
Review QC	Print Reports	
Review Status		
Routine Reports		
Print Reports		

Version 4.5 30007
Licensed For: 5
Current User:

Reporting Options

Reporting Options

Print Final Report

Print Narrative

Print Anomaly Narrative

Mark Data Package Status

Cancel

NEW!



To/MS: Kay Kams, HSR-8, MS C925
From/MS: Chris Brink, CCSE, MS K484
Phone/Fac: 667-0152 / 665-5982
Symbol: CCSE, IH 08072601
Date: August 4, 2005

Subject: Analytical Results – SDG #: 08072601 ID/Workcard #: 200501147

This analytical request was logged on 7/26/2005 and included 16 Swipe Filters to be analyzed for Beryllium, Lead, & Uranium. All samples received by this laboratory on 7/26/2005 were in acceptable condition. Each sample was analyzed using analytical method SP147. Analysis was completed on 7/27/2005. My records indicate a preliminary report was electronically mailed to you on 7/27/2005. Results are included in Section 2 of this report.

QC

Two Media Spikes, two Blank QC samples and one Laboratory Control Sample (LCS) were analyzed concurrently with the field samples. All QC results were within acceptable ranges.

Comments

The analytical results contained in this report relate only to the items tested, and do not have any blank corrections (e.g., field blanks or method blanks are not subtracted from the results).

****Digestion Comments** (directly from Aspen Digestion Log)

None

No anomalies were observed with your samples. If you have any questions regarding this data, please give me a call.

Cy: IH File

Sample Processing through LIMS

Final Reporting in Aspen

Menu

Aspen Enterprise

Laboratory Information Management System

Los Alamos National Lab

Active Samples	Archived Samples	Utilities
Login/Edit Samples	Select Archives	
Enter Prep/Sample Information	Review Samples	
Import Data	Routine Reports	
Review QC	Print Reports	
Review Status		
Routine Reports		
Print Reports		

Version 4.5 30007
Licensed For: 15 Users
Current User: Lims Admin

Reporting Options

Reporting Options

Print Final Report

Print Narrative Print Anomaly Narrative

Mark Data Package Status

Cancel

Los Alamos National Laboratory
Chemistry Division
Chemical Sciences and Engineering, C-SE
PO Box 1663
MS-5534
Los Alamos, NM
87545
Phone: (505) 667-2369
Fax: (505) 665-1983

AMENDED

-- CERTIFICATE OF ANALYSIS --

Sample Delivery Group:
05060607
ID/Workcard: 200501363

Customer:
Gary Whitney
HSR-5 /MS K494
Los Alamos NM
(505) 665-8459

Explanation of Flags:
- H: Sample has been MET, FCL, or L.
- H: Sample is above upper analytical limit.
- L: Sample is below lower analytical limit.
- QC: Acceptance Criteria Met.

GUIDANCE FOR THE PROPER USE OF C-SE CERTIFICATES OF ANALYSIS
As guidance for proper use of this Certificate of Analysis, it is recommended that the Los Alamos National Laboratory, Chemistry (C) Division, Analytical Chemistry Sciences (ACS) Group is concerned with fostering excellence in the analysis reported. Therefore, if this Certificate of Analysis is to be quoted, it is recommended that results along with the associated Certificate of Analysis be quoted in their entirety, so as to provide context and to ensure that the data contained in this report has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signature.

Laboratory Manager/Designee: _____ Date: _____
Chris Brink

Los Alamos National Laboratory
Chemistry Division
Chemical Sciences and Engineering, C-SE
PO Box 1663
MS-5534
Los Alamos, NM
87545
Phone: (505) 667-2369
Fax: (505) 665-1983

-- CERTIFICATE OF ANALYSIS --

Sample Delivery Group:
05060607
ID/Workcard: 200501363

Customer:
Gary Whitney
HSR-5 /MS K494
Los Alamos NM
(505) 665-8459

Explanation of Flags:
- H: Sample has been MET, FCL, or L.
- H: Sample is above upper analytical limit.
- L: Sample is below lower analytical limit.
- QC: Acceptance Criteria Met.

GUIDANCE FOR THE PROPER USE OF C-SE CERTIFICATES OF ANALYSIS
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Laboratory Manager/Designee: _____ Date: _____
Chris Brink

Friday, August 05, 2005

NOTE: See AHA Central Results. See Report Section 2, Page of 10

***Aspen Laboratory Information Management System
Quality Assurance – Non-Trendable QC module***

Active Samples

- Login/Edit Samples
- Enter Prep/Sample Information
- Import Data
- Review QC**
- Review Status
- Routine Reports
- Print Reports

[illegible]

<i>Non-Trendable QC Values</i>	
<i>Batch_Number</i>	04092701
<i>WS#</i>	WS004355
<i>Lab#</i>	00.39892-G8 LCS
<i>TestGroupID</i>	00.39892
<i>TestName</i>	Beryllium
<i>NumericResult</i>	0.693231354
<i>AnalysisDate</i>	10/8/2004
<i>Comments</i>	Non-trendable process testing. 8/4/05 MTW

WS# WS004355

00.39892-G8 LCS

TestGroupID 00.39892

<i>TestName</i>	Beryllium
-----------------	-----------

<i>NumericResult</i>	0.693231354
----------------------	-------------

AnalysisDate 10/8/2004

Comments Non-trendable process testing. 8/4/05 MTW

Aspen Laboratory Information Management System

Quality Assurance – Sample Status

Review QC

Review Status

Sample Status

Lab#	Sample ID	Client ID	Program Code	Sample Complete Date	Ready To Report	Report Date	Ready To Archive	Due Date	LIMS#
05062701-001	200501391 A	RJH	KT1170000009	6/28/2005	✓	6/28/2005	✓	6/28/2005	47687
05062701-002	200501391 B	RJH	KT1170000009	6/28/2005	✓	6/28/2005	✓	6/28/2005	47688
05062701-003	200501391 C	RJH	KT1170000009	6/28/2005	✓	6/28/2005	✓	6/28/2005	47689
05062701-004	200501391 D	RJH	KT1170000009	6/28/2005	✓	6/28/2005	✓	6/28/2005	47690
05062701-005	200501391 E	RJH	KT1170000009	6/28/2005	✓	6/28/2005	✓	6/28/2005	47691
05062701-006	200501391 F	RJH	KT1170000009	6/28/2005	✓	6/28/2005	✓	6/28/2005	47692
05062701-007	200501391 G	RJH	KT1170000009	6/28/2005	✓	6/28/2005	✓	6/28/2005	47693
05062701-008	200501391 H	RJH	KT1170000009	6/28/2005	✓	6/28/2005	✓	6/28/2005	47694
05062701-009	200501391 I	RJH	KT1170000009	6/28/2005	✓	6/28/2005	✓	6/28/2005	47695
05062701-010	200501391 J	RJH	KT1170000009	6/28/2005	✓	6/28/2005	✓	6/28/2005	
05062701-011	200501391 K	RJH	KT1170000009	6/28/2005	✓	6/28/2005	✓	6/28/2005	
05062701-012	200501391 L	RJH	KT1170000009	6/28/2005	✓	6/28/2005	✓	6/28/2005	
05062701-013	200501391 M	RJH	KT1170000009	6/28/2005	✓	6/28/2005	✓	6/28/2005	
05062701-014	200501391 N	RJH	KT1170000009	6/28/2005	✓	6/28/2005	✓	6/28/2005	
05062701-015	200501391 O	RJH	KT1170000009	6/28/2005	✓	6/28/2005	✓	6/28/2005	
05062701-016	200501391 P	RJH	KT1170000009	6/28/2005	✓	6/28/2005	✓	6/28/2005	
05062701-017	200501391 Q	RJH	KT1170000009	6/28/2005	✓	6/28/2005	✓	6/28/2005	
05062701-018	200501391 R	RJH	KT1170000009	6/28/2005	✓	6/28/2005	✓	6/28/2005	
05062701-019	200501391 S	RJH	KT1170000009	6/28/2005	✓	6/28/2005	✓	6/28/2005	
05062701-020	200501391 T	RJH	KT1170000009	6/28/2005	✓	6/28/2005	✓	6/28/2005	

Sample Detail

Results

Export

User Ext.

Print

Back

Close

Print SDG Labels

IH Sample Load

ISDA	Test Type	#	Matrix	TAT	Schedule	Free Date	Analysis Date
Due Date: Wednesday, August 31, 2005							
0167303	HCHEPAT-DE-De	4	Air/Fiber	17	Analysis Date	7/17/2005	7/15/2005
0167304	HCHEPAT-DE-De	4	Air/Fiber	17	Analysis Date	7/17/2005	7/15/2005
0167301	DE De vs Fibers-RTF	10	Fiber/Fiber	3	RTF	6/1/2005	6/1/2005
0167302	DE De vs Fibers-RTF	10	Fiber/Fiber	3	RTF	6/1/2005	6/1/2005
0167303	DE De vs Fibers-RTF	10	Fiber/Fiber	3	RTF	6/1/2005	6/1/2005
0167304	DE De vs Fibers-RTF	10	Fiber/Fiber	3	RTF	6/1/2005	6/1/2005
0168001	DE De vs Fibers-RTF	10	Air/Fiber	3	RTF	6/1/2005	6/1/2005
0168002	DE De vs Fibers-RTF	10	Air/Fiber	3	RTF	6/1/2005	6/1/2005
0168003	DE De vs Fibers-RTF	10	Air/Fiber	3	RTF	6/1/2005	6/1/2005
Outstanding Items: 99							
Due Date: Thursday, August 11, 2005							
0168001	DE De vs Fibers-RTF	10	Fiber/Fiber	3	Ready? RTF	6/1/2005	6/1/2005
0168002	DE De vs Fibers-RTF	10	Fiber/Fiber	3	RTF	6/1/2005	6/1/2005
0168003	DE De vs Fibers-RTF	10	Fiber/Fiber	3	RTF	6/1/2005	6/1/2005
0168004	DE De vs Fibers-RTF	10	Fiber/Fiber	3	RTF	6/1/2005	6/1/2005
Outstanding Items: 49							
Due Date: Friday, August 19, 2005							
0167301	DE De vs Fibers-RTF	4	Air/Fiber	10	Mail? Over	7/17/2005	7/15/2005
0167302	DE De vs Fibers-RTF	4	Air/Fiber	10	Mail? Over	7/17/2005	7/15/2005
0167303	DE De vs Fibers-RTF	4	Air/Fiber	10	Mail? Over	7/17/2005	7/15/2005
0167304	DE De vs Fibers-RTF	4	Air/Fiber	10	Mail? Over	7/17/2005	7/15/2005
0168001	DE De vs Fibers-RTF	10	Air/Fiber	3	RTF	6/1/2005	6/1/2005
0168002	DE De vs Fibers-RTF	10	Air/Fiber	3	RTF	6/1/2005	6/1/2005
0168003	DE De vs Fibers-RTF	10	Air/Fiber	3	RTF	6/1/2005	6/1/2005
0168004	DE De vs Fibers-RTF	10	Air/Fiber	3	RTF	6/1/2005	6/1/2005
Outstanding Items: 70							

Samples Analyzed Between 6/1/05 and 6/30/05

June 2005						
Client: 701700						
Customer: JACQUE MCDONALD						
Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
0168001	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168002	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168003	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168004	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
Client: 700000						
Customer: GUY HENRY						
Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
0168001	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168002	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168003	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168004	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168005	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168006	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168007	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168008	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168009	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168010	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168011	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168012	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
Client: 700000						
Customer: ARTHUR S. MARKEZ						
Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
0168001	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168002	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168003	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168004	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
Client: 700000						
Customer: ARTHUR S. MARKEZ						
Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
0168001	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168002	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168003	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168004	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
Client: 700000						
Customer: ARTHUR S. MARKEZ						
Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
0168001	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168002	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168003	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168004	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
Client: 700000						
Customer: ARTHUR S. MARKEZ						
Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
0168001	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168002	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168003	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168004	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
Client: 700000						
Customer: ARTHUR S. MARKEZ						
Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
0168001	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168002	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168003	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168004	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
Client: 700000						
Customer: ARTHUR S. MARKEZ						
Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
0168001	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168002	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168003	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168004	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
Client: 700000						
Customer: ARTHUR S. MARKEZ						
Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
0168001	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
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0168003	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168004	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
Client: 700000						
Customer: ARTHUR S. MARKEZ						
Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
0168001	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
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0168003	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168004	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
Client: 700000						
Customer: ARTHUR S. MARKEZ						
Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
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0168002	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168003	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168004	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
Client: 700000						
Customer: ARTHUR S. MARKEZ						
Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
0168001	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168002	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168003	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168004	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
Client: 700000						
Customer: ARTHUR S. MARKEZ						
Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
0168001	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
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0168003	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168004	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
Client: 700000						
Customer: ARTHUR S. MARKEZ						
Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
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0168002	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168003	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168004	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
Client: 700000						
Customer: ARTHUR S. MARKEZ						
Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
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0168004	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
Client: 700000						
Customer: ARTHUR S. MARKEZ						
Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
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0168004	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
Client: 700000						
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Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
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Client: 700000						
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Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
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Client: 700000						
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Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
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Client: 700000						
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Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
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0168004	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
Client: 700000						
Customer: ARTHUR S. MARKEZ						
Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
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0168002	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
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0168004	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
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Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
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Client: 700000						
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Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
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0168004	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
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Customer: ARTHUR S. MARKEZ						
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Customer: ARTHUR S. MARKEZ						
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0168004	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
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Customer: ARTHUR S. MARKEZ						
Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
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0168004	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
Client: 700000						
Customer: ARTHUR S. MARKEZ						
Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
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0168002	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168003	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168004	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
Client: 700000						
Customer: ARTHUR S. MARKEZ						
Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
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0168002	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168003	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168004	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
Client: 700000						
Customer: ARTHUR S. MARKEZ						
Sample#	Test Reference	Sample#	TAT	Analysis Date	Test Date	
0168001	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168002	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168003	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
0168004	DE De vs Fibers-RTF	10	3	6/1/2005	6/1/2005	
Client: 7						

Aspen Laboratory Information Management System Utilities Menu

Utilities Menu

Libraries

- Reference Library
- Test Group Library
- Test Library
- Lab Section/Dept. Library
- Submitter Library
- Manufacturer Library
- QC Library
- Quote Library

File Maintenance

- Transfer To Archives
- Worksheet Maintenance
- Update Tables
- Problem Log

Miscellaneous Items

- Business Rules
- Schedule Reports
- User Extension

Select a Table to Update

- ☒ Update LCS Names Table
- ☒ Update Spike Solutions Table
- ☒ Unlock Worksheet
- ☒ Open Audit Trail Table

Open Table Cancel

Problem_Log

SDG Batch #	Log Date	Logged By	Problem Category
05051802	5/24/2005	201750	Digestion

Problem Description
SDG #05051802 left out of Prep Batch #1134

Problem Fix Summary
Inserted Prep# into TESTGROUPS and TESTS tables.

Problem Fix Detail
Open TESTGROUPS table, search for SDG# under LIMS# field. Type in the Digestion batch # under PREP# field for all samples in the SDG batch. Identify LIMS# for each sample in the SDG batch. Open TESTS table, search for LIMS# as key identifier, search for SDG sample under LIMS#. Type in Digestion batch # under Prep# field for all samples in the SDG batch.

EXAMPLE

Add Record Close

Aspen Laboratory Information Management System Database Customizations

Active Samples



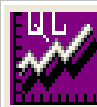
Login/Edit Samples



Enter Prep/Sample
Information



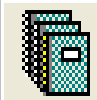
Import Data



Review QC



Review Status



Routine Reports



Print Reports

Amended Login Report

**Prep Batch Creation and Modification; Dilution
Flagging; Autosampler Report**

QC Template Assignment; Digestion Dilution Transfer

Non-Trendable Module; Auto-import of QC data

Data Package Tracking

IH Sample Load Report

Online Narrative; Merged Anomaly Narrative

What's in the works?

- *Run-time analysis flagging program to interface with Perkin-Elmer instruments*
- *MiniTab Trending software implementation:*
 - *Automatic QC Trending Charts available for each data packet*
 - *QC Trending Charts for each month updated automatically*
- *Interfacing LIMS with various Radiological Instrumentation*
- *Sharepoint Interface*
 - *Sample login to Aspen initiated by HSR Industrial Hygienists*
 - *Interface directly with Customer databases*